

For Research Use Only

PDE5A Recombinant monoclonal antibody, PBS Only

Catalog Number:85030-5-PBS



Basic Information

Catalog Number: 85030-5-PBS	GenBank Accession Number: BC126233	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 8654	CloneNo.: 242597D5
Isotype: IgG	UNIPROT ID: O76074	
Immunogen Catalog Number: AG18779	Full Name: phosphodiesterase 5A, cGMP-specific	
	Calculated MW: 875 aa, 100 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse

Background Information

PDE5A (cGMP-binding cGMP-specific phosphodiesterase) plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP. Through alternative splicing, the PDE5A gene produces three proteins (PDE5A1, PDE5A2, and PDE5A3) that differ in their N termini and range in mass from 89 to 105 kDa. (PMID: 25704994; 21215707). A second 70 kDa band was consistently observed in heart tissue that either reflected a splice variant or proteolytic fragment of PDE5A. (PMID: 15576651).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

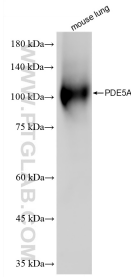
T: 4006900926

E: Proteintech-CN@ptglab.com

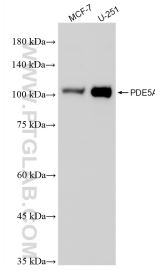
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

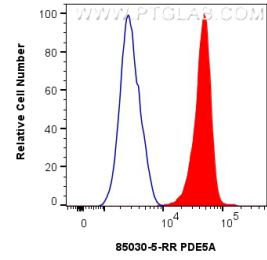
Selected Validation Data



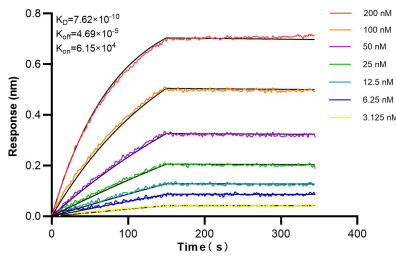
mouse lung tissue were subjected to SDS PAGE followed by western blot with 85030-5-RR (PDE5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85030-5-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 85030-5-RR (PDE5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85030-5-PBS in a different storage buffer formulation.



1x10⁶ HEK-293 cells were intracellularly stained with 0.25 ug Pde5a Recombinant Antibody (85030-5-RR, Clone:242597D5) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone:240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 85030-5-PBS in a different storage buffer



Biolayer interferometry (BLI) kinetic assays of 85030-5-RR against Human PDE5A were performed. The affinity constant is 0.762 nM.